

### **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### **Listing of Claims:**

1-29. (Canceled).

30. (Currently amended) A catheter assembly, comprising:

a catheter including at least one lumen; and

a connector including a distal end attached to a proximal end of the catheter and a passageway in fluid communication with the at least one lumen, a proximal portion of the passageway including an engagement feature configured to connect an end of an instrument to the connector, a distal portion of the passageway including a built-in valve longitudinally fixed with respect to the connector having a closed proximal end with a slit and an open distal end, the valve proximal end distal of the engagement feature.

31. (Previously presented) The catheter assembly according to claim 30, wherein the valve includes a wall defining a lumen from the proximal end to the distal end, the wall configured to guide a proximal end of a guidewire from the valve distal end through the slit in the valve proximal end.

32. (Previously presented) The catheter assembly according to claim 30, wherein the connector comprises a material having a hardness in the range of about 90 Shore A to about 90 Shore D, and wherein the valve comprises a material having a hardness in the range of about 40 Shore A to about 60 Shore A.

33. (Previously presented) The catheter assembly according to claim 30, wherein the engagement feature comprises an O-ring, and wherein a wall defining the proximal portion of the passageway proximal of the O-ring is tapered.

34. (Withdrawn) A catheter assembly, comprising:  
a catheter including a first lumen and a second lumen; and  
a connector including a distal end attached to a proximal end of the catheter, a distal portion of the connector including a collapsed portion biasing a lumen of the connector in a closed configuration.

35. (Withdrawn) The catheter assembly according to claim 34, wherein a proximal portion of the connector lumen includes an engagement feature configured to connect an end of an instrument to the connector.

36. (Withdrawn) The catheter assembly according to claim 34, wherein the connector comprises a material having a hardness in the range of about 60 Shore A to about 90 Shore A.

37. (Withdrawn) An adaptor assembly, comprising:  
a connector housing including a tapered proximal end and a distal end having an opening configured to receive a proximal end of a catheter, a distal portion of a connector housing lumen including a valve having a closed proximal end with a slit and an open distal end; and  
a syringe adaptor including a distal end configured to slide over the tapered proximal end of the connector housing and a proximal opening configured to receive a male luer portion of the syringe.

38. (Withdrawn) The adaptor assembly according to claim 37, wherein a proximal portion of the connector housing lumen includes an engagement feature configured to connect an end of a tunneler to the connector housing, the valve proximal end distal of the engagement feature.

39. (Withdrawn) The adaptor assembly according to claim 37 in combination with a tunneler, wherein the engagement feature comprises a compression ring configured to grip a tip of the tunneler.

40. (Previously presented) The catheter assembly according to claim 30, wherein the connector includes an tapered outer surface at a proximal end thereof.

41. (Previously presented) The catheter assembly according to claim 40, further comprising a syringe adaptor including a distal end configured to slide over the tapered proximal end of the connector housing and a proximal opening to receive a male luer.

[[41.]] 42. (Currently amended) The catheter assembly according to claim 30, further comprising a tunneler, wherein the engagement feature engages a tip of the tunneler upon insertion of the tunneler tip into the proximal portion of the passageway.

43. (New) The catheter assembly according to claim 30, wherein the valve opens by insertion of a medical device through the valve.

44. (New) The catheter assembly according to claim 30, wherein the valve proximal end is longitudinally fixed with respect to the connector.

45. (New) The catheter assembly according to claim 30, wherein the valve proximal end is fixed relative to the engagement feature.

46. (New) The catheter assembly according to claim 30, wherein the engagement feature includes a projection into the passageway.

47. (New) The catheter assembly according to claim 46, wherein the projection has a reduced diameter relative to an inside diameter of the passageway on a proximal side and a distal side of the projection.